

MATERIAL SAFETY DATA SHEET ****

HIGH SIERRA
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HD HIGH FOAMING ACID CLEANER

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME OR NUMBER..... HD HIGH FOAMING ACID CLEANER
TRADE NAME OR CHEMICAL NAME..... HD HIGH FOAMING ACID CLEANER
SYNONYMS..... N/A
FORMULA..... PROPRIETARY
CHEMICAL FAMILY..... ACIDIC CLEANER
MOLECULAR WEIGHT..... N/A
NFPA..... SEE SECTION 8
HMIS RATING..... SEE SECTION 8

SECTION 2 HAZARDOUS INGREDIENTS / HAZARD DATA

<u>CHEMICAL NAME(S)</u>	<u>CAS NUMBER</u>	<u>% WT</u>	<u>TLV-ACGIH</u>	<u>PEL-OSHA</u>	<u>SEC. 313</u>	<u>NTP</u>	<u>IARC</u>	<u>PROP. 65</u>
NITRIC ACID	7697-37-2	<10.0	2 PPM	2 PPM	Yes	NO	NO	No
PHOSPHORIC ACID	7664-38-2	<15.0	1 PPM	1 PPM	No	NO	NO	No

SECTION 3 REGULATORY DATA

NTP..... NATIONAL TOXICOLOGY PROGRAM
IARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
PROPOSITION 65..... THIS PRODUCT CONTAINS INGREDIENTS ON
THE LIST OF PROPOSITION 65.
STATE OF CALIFORNIA SAFE DRINKING WATER AND
TOXIC ENFORCEMENT ACT OF 1986.
SECTION 313 SARA TITLE III... THE CHEMICAL(S) MARKED WITH A 'YES' ON
SECTION 313 ARE SUBJECT TO THE REPORTING
REQUIREMENTS OF THIS SECTION.

SECTION 4 PHYSICAL DATA

BOILING/MELTING POINT @760 mm Hg N/A
pH..... <2.0
SPECIFIC GRAVITY OR BULK DENSITY 1.12
SOLUBILITY IN WATER..... COMPLETE
APPEARANCE..... CLEAR, RED LIQUID
ODOR..... PUNGENT

SECTION 5 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT °F (Test Method).... N/A
AUTOIGNITION TEMPERATURE..... NON FLAMMABLE
FLAMMABILITY LIMITS IN AIR (% V) N/A
EXTINGUISHING MEDIA..... WATER, FOAM, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES WEAR SELF CONTAINED BREATHING APPARATUS
AND FULL PROTECTIVE EQUIPMENT. SPRAY WITH
WATER TO MINIMIZE VAPOR AND TO COOL
EQUIPMENT EXPOSED TO HEAT.

HD HIGH FOAMING ACID CLEANER

SECTION 5

FIRE AND EXPLOSION HAZARD DATA

CONT'D

UNUSUAL FIRE & EXPLOSION HAZARDS IT CAN CAUSE SPONTANEOUS IGNITION OF SOME MATERIALS. CONTACT WITH COMMON METALS MAY GENERATE HYDROGEN GAS WHICH CAN FORM FLAMMABLE MIXTURE WITH AIR.

SECTION 6

HEALTH HAZARD DATA * EFFECTS OF OVEREXPOSURE

THRESHOLD LIMIT VALUE.....SEE SECTION 2

SIGN OF OVEREXPOSURE:

EYES.....WILL CAUSE SEVERE BURNS THAT RESULT IN DAMAGE TO THE EYES AND POSSIBLE BLINDNESS.

SKIN.....WILL CAUSE SEVERE BURNS AND IRRITATION WHICH MAY NOT BE IMMEDIATELY PAINFUL OR VISIBLE.

INHALATION.....AIRBORNE CONCENTRATIONS OF DUST MIST, OR SPRAY MAY CAUSE DAMAGE TO THE UPPER RESPIRATORY TRACT AND THE LUNG TISSUE.

INGESTION.....IF SWALLOWED, CAN CAUSE SEVERE BURNS OF MUCOUS MEMBRANES OF THE MOUTH, THROAT AND STOMACH.

CHRONIC.....NO KNOWN CHRONIC EFFECTS

SECTION 7

EMERGENCY AND FIRST AID PROCEDURES

INHALATION...REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, ASSIST BREATHING. SEEK MEDICAL HELP.

EYE CONTACT...IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CONTACT A PHYSICIAN.

SKIN CONTACT...IMMEDIATELY WASH SKIN WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

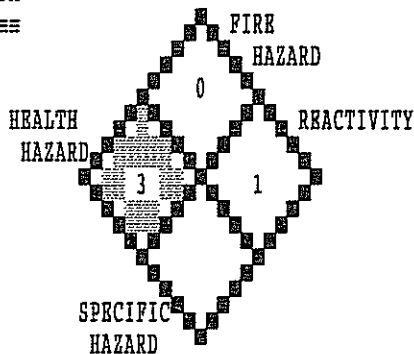
INGESTION....NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 8

HMSI RATING SYSTEM

NFPA

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HMSI RATING

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HEALTH HAZARD.....:3

FIRE HAZARD.....:0

REACTIVITY.....:1

PERSONAL PROTECTION..: SEE SECTION 10

SECTION 9

REACTIVITY DATA

PRODUCT STABILITY..... STABLE UNDER NORMAL CONDITIONS.

HD HIGH FOAMING ACID CLEANER

SECTION 9

REACTIVITY DATA

CONT'D

Conditions to Avoid.....

CHEMICAL INCOMPATIBILITY.....	AVOID CONTACT WITH HYDROCARBONS, CHLORATES SULFUR, HYDROGEN SULFIDE, CHARCOAL, BASE METALS, ALKALINE WHICH MAY CAUSE VIOLENT SPLATTERING AND LIBERATE HEAT AND AMMONIA.
HAZARDOUS DECOMPOSITION PRODUCTS	NITRIC OXIDE (NO) NITROGEN DIOXIDE (NO2) ARE DECOMPOSITION PRODUCTS THAT ACCUMULATE UNDER NORMAL STORAGE CONDITIONS. IF INVOLVED IN A FIRE, OXIDES OF NITROGEN MAY BE GENERATED.
HAZARDOUS POLYMERIZATION.....	WILL NOT OCCUR
Conditions to Avoid.....	AVOID EXPOSURE TO DIRECT SUNLIGHT.
CORROSIVE TO METAL.....	YES
OXIDIZER.....	NO

SECTION 10

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....	Respirator protection is not required under normal use.
VENTILATION.....	Local exhaust to control to recommended P.E.L.
PROTECTIVE CLOTHING.....	Gloves, coveralls, aprons, boots
EYE PROTECTION.....	Chemical goggles.

SECTION 11

ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA.....	NONE KNOWN
SPILL OR LEAK PROCEDURES.....	CONTAIN, COLLECT AND DISPOSE PER LOCAL, STATE AND FEDERAL REGULATIONS.
WASTE DISPOSAL METHOD.....	PER LOCAL, STATE AND FEDERAL REGULATIONS.
CONTAINER DISPOSAL.....	PER LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 12

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME.....	COMPOUND, CLEANING LIQUID (NITRIC ACID, PHOSPHORIC ACID)
HAZARDOUS SUBSTANCE.....	NONE
D.O.T. HAZARD CLASS.....	8
D.O.T. LABELS REQUIRED.....	CORROSIVE
D.O.T. PLACARDS REQUIRED.....	CORROSIVE
POISON CONSTITUENT.....	NONE
BILL OF LADING DESCRIPTION.....	HD HIGH FOAMING ACID CLEANER
PACKING GROUP.....	II
UN/NA CODE.....	NA 1760

SECTION 13

SUPPLIER INFORMATION

While High Sierra Chemical believes the statements set forth herein are accurate as of the date hereof, High Sierra Chemical makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.